CLASSIFICATION CONFIDENTIAL INFORMATION REPORT CD NO USSR (Gorkiy Old st) DATE DISTR M. lev. SUBJECT Rulon Chemical Plant in Deerzhinsk NO OF PAGES 3 25X1 PLACE NO. OF ENCLS2 (8 pages) ACQUIRED DATE OF HOT CIRCULATE 25X1SUPPLEMENT TO REPORT NO. INFO.

THIS DOQUMENT CONTRINS INFORMATION AFFECTING THE MATIGMAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THEE 1G. SECTIORS 730 AND 784, OF THE 0.3, CODE. AS MERINDED. ITS TRANSMISSION OR REVEL-ATION OF TE CONTRINTS TO GENERAL THE ACCUMENTATION OF THE SECOND OF THE REPORT OF THE PROPERTY OF LAW THE REPORT OF THE FORM STOPE.

THIS IS UNEVALUATED INFORMATION

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- The Rulen chemical plant was located about 300 meters north of the double track Dzerzhinsk (56-15'N/43-24'E) -Gorkiy (56-20'N/44-00'E) railroad line, opposite the Rulen stop which is il km.cast-nertheast of the Dzerzhinsk main railroad station. From the Igramovo (56016'N/13037'E) marshaling yard, located usst-southwest of the plant, a railroad spur led to the western edge of the plant, where it branched into several tracks. A field railway track silegedly led from the plant in a north-northwestern direction to a peat yard about 3 located of several three-story wooden huts, adjoined the southwestern corner of the plant area. A part of the northeastern section of the plant area was still covered with trees. Hard-surfaced foads (feste Strassen) led from the plant who the workers' settlement and the Rulen stop, to the Dzerzhinsk Gorkiy road, come sections of which were asphalted. A streetcar route led from the Rulen stop to the center of the city of Dzerzhinsk.
- The name of the plant was Khimicheskiy Zavod Rulon (Aulon Chemical Plant). At first the plant was referred to as the aniline dye plant, and after 1942 it was called either the Rulon plant or Plant No. 148. The construction of some installations was started in 1938, and these installations were put into operation in 1940, 1942, and 1943. In mid-1947, the construction of a new section, which was temporarily designated Plosh, was started in the southwestern corner of the plant area. Production had not started in this new section as of late 1949.
- 3. The Rulon plant, which was entirely enclosed by a concrete wall, covered an area of about 2.5 square km. The northern half of the plant area and about one fourth of the eastern section were practically vacant. The plant was separated into three manufacturing departments which operated more or less independently. The two old departments included the plexiglass section, the safety class section, and the installations built during the war to produce chemical warfar agents and to lead these agents into bombs and projectiles. The third department was the newly constructed department in the southwestern section of the plant area, which was referred to as Plosh. The new department, which consisted of 11 buildings, one tark installation, and one cooling tower, was almost completed, but had not been put into operation as of the fall of 1949. It was equipped with installations dismantled in Germany, and included equipment from the Leuna Works. The plant also contained large storehouses for rarmaterials and finished products, and several tanks. Other buildings housed

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	administration offices, workshops and minor auxiliary installations.
14	The plant was supplied with electricity from the TETs thorast power plant,
	power plant in Gorkiy and the large control record that the municipal
	shops in the Place department was lighted the talkations in Deershinsk, Works
	The Talls power plant also supplied steam for heating through underground pipe lines, 40 cm in diameter. This steam had a pressure of seven atmosphere
	The pure of seven atmosphere
ar e	The Rulon plant processed naphthalone (C ₁₀ H ₂), naphthal (C ₁₀ H ₂ O ₁ E), sulphuri acid (H ₂ SO ₁), alcohol (C ₂ H ₂ CH), ether (C ₂ H ₂ C), observed (CH ₂ COCH ₂), acetic acid (CH ₂ - CCOH), and calcium carbide (CaC ₂), as well as place. Frier to the fall of 1949, the main products produced in the plentings deposits to
	the fall of 1949, the main products produced in the plexiclass department were plexiclass plates of wartons department.
	were plexiglass plates of various dimensions.
	quantities of aircraft cochaits, and small utensils. During the war, the
	loaded into projectiles, Sactoria, exemple and arreaded thich sace
	information was aveilable as to the altimate trace of was not morne to
· ·	the Plosh department nor on to the end use of the raw materials unleaded in the area of that department, as
6.	Like all chemical plants in Transition
	Rayanovich (fau), who allowed the man and the hain alant was directed by one
	By the end of the var, about 3,000 tollers, of whom 60 percent were women, 20 percent men, and 20 percent juveniles.
	departments. In late 1919, there were could be applianted in the production
	the Rulon plant.
. 70	The entire plant area was enclosed by a high wall topped with harbed wire.
	by barbed wire fences. The plant was guarded by military sentries Fire
25X1	extinguishers were available, but the fire fighting equipment was quite
23/(1	Carmonia 77
	Comment: For layout sketch of the plant, see Annex 1, which is based on information from PUs and
25X1	department, see Amor 2 have
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	In view of the many pipe lines connecting the workshops of the Flosh department to the tank installations in the workshops of the Flosh department.
	in which alcohol. ether, active abid and are sections of the plant
	ment, it is fairly definitely believed that plantics are cade there, Based on the descriptions of the torte.
	installed in rany of the buildings of the Plant described in columns,
	that polymers from an alcohol base are produced there, although much of the

plastics are produced by German processes, propably by the I.C. Farbon rethird.

that polymers from an alcohol base are produced there, although much of the alcohol may be used as a solvent. The statements that equipment disrantled from the Louna "orks is installed in this plant" indicate that one or rise

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were unable to turnish detailed information concerning the departments producing chemical warfare agents because the buildings used for this purpose which were fonced in and closely guarded, were off-lights to the IVs. There were numerous indications that chemical warfare agents were still being produced as of late 1919, although at a far lower rate than during the vere of chemical warfare agents were not even slightly rediffied after the production of chemical warfare agents were not even slightly rediffied after the production societs captured in 19th, who had worked in the Rulen plant, stated that the plant processed hydrocyanic acid and cyanides into chemical warfare agents, bromide cyanide, particularly rusterd gas bromide (CI2m-CI2)2S), benual (BrCM), were produced and leaded into projectiles. Ampules were also filled with poisonous agents and bacterial cultures. There is no information available has to whether, and by what returns, coal tar does are rade in this plant. The fact that large quantities of maphibales and, according to one of the interrediate products thereof, were produced, at least to a limited extent.

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Attachment 1

Legend:

- 1. Cormunist Party building,
- 2. Tank, use unknown.
- 3. Canteen and mess hall.
- li. Apartment houses.
- 5. Administration and office building and a school for assistant chemists (Laboranten).
- 6. Entrance gates, with guardhouses and check points.
- 7. Concrete wall, 2 meters high, with barbed wire.
- 8. Wooden fence, with barbed wire, twilt in May 1948.
- 9. Large workshop, still used in mid-1919 as billets for Fis from P. Comp. No. 7117/7.
- 10. Small barracks for guards.
- 11. Former werkshop, three and four-stories, used as Pr Camp Co, 7117/7.
- 12. Torkshop, use unknown.
- 13. Former workshop, with a forme in one part of the building. The rest of the building was used for storage.
- Ih to 27. The new section of the plant referred to as the Plosh department.
- 14. Central steam heating station.
- 15. Building No. 105.
- 16. Building No. 104.
- 17. Building No. 108, a small structure housing two tanks, each with a capacity of 80 cubic meters, and a racking shop.
- 18. Building No. 102, equipped with four cylindrical tanks, each about 14 meters high and 2 meters in diameter, with walls short 2 cm. thick. These tanks were made of several welded rings, allegedly of charge nickel steel and were reinforced at two points by riveted, flanted rings. These tanks had steel frames and were nounted on concrete bases, flanged pipes were fastened to the top and bottom of these tanks, and there were several pipe sockets on the tops of the tanks. The tanks were filled to capacity with Saschig rings made of porous percelain. There were several numbels and large, round, glass windows in the tanks; On the lower part of the tanks were plates to which pressure gauges and hand-wheels for valves were attached. On the walls near the tanks were several galleries with rails at different levels.
- 19. Building He, 101. The various sections of this building varied in height

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Attachment 1

The riddle section was equipped, with six columns like those in Building No. 102. The northern axis southern sections boused several laboratories. There were two chimneys in the middle section. Secause of the possibility of explosions, the roofs of the building were of very light construction. In the winter of 1940, an explosion squttered various metal parts all ever the neighboring area. After the explosion, there was a leavy oder of other in the vicinity of the paidling.

- 20. Building No. 103, with annex. In the southern section were six columns of the same type as those in Building No. 102. In the northern section, which was five stories high, there wife four large druns on the first floor, and several horizontal drums, about 2 meters high and about 1 meter in diameter, on the fourth and fifth floors.
- 21. Small building housing the central distributing station for the network of pipes coming from the new symphouse and from Building Ho. 118 to the workshops and tank installations in the Plesh department. There were several centrifugal pumps in this building. The bipes between the various buildings in the Plesh department were died together and were laid on transverse girders, supported by high compared pillars and stool towers.
- 22. Four tank installations, surrounded by a high embankment. Each tank has a capicity of about 200 cubic moders. In rid-1909, valls were built around two tanks.
- 23. Barbed wire fence.
- 2h. Building Mc. 106. There were three large tanks, lined with dead and connected with the cooling tower by pipe lines. The floor around the tanks was flagged with lead slabs and the walls inside the building were lined with sheet lead to a height of about 1 meter.
- 25. Laundry (sic).
- 26. One story building, with deep basement. The building was equipped with six turbine-chaped machines or pumps, a number of which extended deep into the basement. The installation was connected with the central steam heating station by a thick steam pipe. On the outside of each of the two longer sides of the building was a round tank, which was coated with concrete or insulating material. A condensation pipe led to the cooling tower.
- 27. Water-cooling tower. A wood structure, 36 nevers high and 20 nevers in diameter, on a concrete base, 13 nevers high.
- 28 a. Sawmill.
- 28 b. Wood-drying room
- 29 a. Wood-working shop.
- 29 b. Storage shed.
- 30. Building No. 111, use ameneway

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Attachment 1

- 31. Storehouse.
- 32. Duilding Mo. 112, consisting of several three-stery sections, with sheet metal chimneys and equipped with several lightning reds.
- 33. Building Mc. 113, housing work roots, Laboratories, and a dispensary. A round tank, E meters high, 1.8 meters in diameter, with asbestos insulation, was located south of the building. Several copper pipe coils heated with steam, were installed in the tank.
- 3h. Building No. 11h, with two low wooden towers. There were many narrow drurs set up in one large room. There were buildles of pipes in several of the drums, and these were removed from time to time to be cleaned. The walls of the room were tiled. A pump installation with a device for filling gas bettles was located in the annex building. Several insulated cooling pipes were installed there. Dull writish vapors, which need one coupe, emitted from sheet metal chimneys. All the vorkers of this department were protective rubber elething. Those working in a detached room in the eastern section of the building also were gas jasks.
- 35. Building No 115. Section "a" was two stories high with a scall laboratory located on the second floor. Section "b" was four atories high. There were three tanks, about 6 meters high and 1.8 meters in disrector, lined with lead, on the first floor. There were also several insulated couling pipes. The workers in this building were protective clothing.
- 36. Roundhouse and repair shop for the locomotives of the plant,
- 37. Billets and canteen for the railway personnel.
- 38. Warehouse for building materials.
- 39. Former boilerhouse, and as a forme in 1949.
- 40. Building, with built-in compressors or piston pumps. There were several transformers in a detached room in the western section.
- 41. Several warehouses for calcium carbide, dyes, lubricants, and building materials.
- 42. Former workshop, now used to manufacture concrete slabs and other building materials.
- 13. Department No. 11, used to manufacture plastics. This was a fairly old installation. There was a fank outside the east wall.
- 44. Before the end of the war, this was Department He. I where hydrocyanic acid was produced. The present use of this building was unknown,
- 45. Before the end of the war, this was Department No. 2 where a hydrocyanic compound (Blausaeureverbindung) "R-27" was preduced. The present use of this building was not known.
- 46. Before the end of the war, this publicing was used for cleaning and presentent of the bodies of projectiles and bombs. In mid-1949, fairly large quantities of projectiles for rocket launchers and 120-mm. and 40-mm. (sic) mortar ammunition were still stored in and around the building.

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- 17. Department No. 3: Prior to the end of the war, hydrocyanic variare agents were leaded into projectiles and bombs in this department. The building is still surrounded by a triple barbed wire fence. Large sheet metal chimneys emit a white vapor. There is an odor of garlic or house-radish in the area around the building. On the northeast side of the building were three tanks, each with a capacity of 9 cubic meters, isod to store chemical warfare agents. The building was closely guarded. The storage tanks are not indicated on the sketch.
- 47 a. Billets for the guards of Department Fo. 3.
 - 48. Department No. 13, used in producing the hydrocyanide compounds "R-178" and R-187" during the war. The present use of this building was not known.
 - 49. Department No. 1h, used for the production of intermediate plastic products and in the processing of naphthalene and sulphuric acid.
 - 50. Sulphuric acid tank.
 - 51. Department No. 8, used for the production of intermediate plastic products.
 - 52. Department No 12, used in the production of plexiglass and as a warehouse for raw materials and semi-finished goods. Presses and relling mill trains were allegedly installed in one section of the building.
 - 53. Two warehouses and shipping department for finished plexiclass goods and polished panes of safety glass.
 - 5h. Department Mo. 7. Small utensils of plexiglass and safety glass were produced here. The panes of glass trucked in from the direction of Dzerz-hinsk were pasted together in several layers by means of a plexiglass-like solution.
 - 55. Warehouse of Department No. 7, for rew materials and finished goods. The buildings of Department No. 7 were guarded separately.
 - 56. Washrooms and dressing-reoms.
 - 57. Pumphouse
 - 58. Six warehouses for raw materials, solvents, and plastics.
 - 59. Station for loading tank cars. After mid-1965, a hutlike structure was allegedly built over the installation.
 - 60. Building No. 110, a ched built over a railroad track equipped with about 20 pipes located on each side of the track, used to fill tank cars.
 - 61. Large tark.
 - 62. Hew pumphouse for Building No. 118, equipped with six pumps and connected with the central distributing station by a pipe line.
 - 63. Old pumphouse for the alcohol and solvents yard, equipped with piston pumps.

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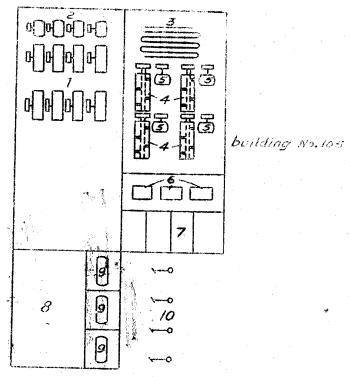
- 6h. Alcohol and solvente yard, with four tanks, about 5 meters high and 12 meters in diameter, with walls about 5 mm. thick. The tanks were in concrete bases and were insulated with glass wool.
- 65. Alcohol and solvents yard, equipped with 16 tanks, about 5 maters high and 4 meters in diameter, which were sprinkled with water in summer. The installation is surrounded by an embankment. Only eight tanks are indicated in the sketch.
- 66. Unloading installation of the alcohol and solvents yard, item No. Ch.
- 67. New buildings called "Tarmy Tsekh" Tarmy, derived from tare, means packing), used in the production of packing material and aquipped with a sawmill.
- 68. Alcohol yard; equipped with three wound tanks, and one building in which handgranades were filled during the war.
- 69. Sewerage glant.
- 70. Hard-surfaced roads.
- 71. Railroad spur system.
- 72. Lightning rods.

The unnumbered installations could not be identified.

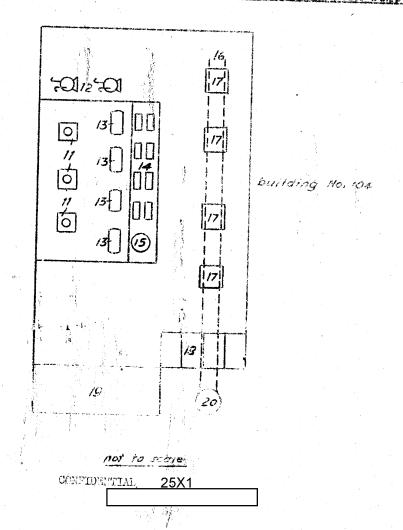
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Buildings No. 105 and 104 of the New Plosh Compound



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Legend:

Building No. 105.

- 1. Fight Seviet-made, four-stage compressors.
- 2. Electric meters for the compressors.
- 3. Pipe ceils.
- h. Four stirrers or spiral mixers (Mischschnecken).
- 5. Four electric motors for the stirrers.
- 6. Cooling plant, with several rectangular brick basins, insulated with peat and asbestes slabs.
- 7. Offices.
- 8. Reom, housing the electric switchboards.
- 9. Several transfermers.
- 10. Steel pipe towers, each about 10 maters high.

Building No 104.

- 11. A high workshop allegedly equipped with three cylindrical tanks, each about 1h meters high and 2 meters in diameter, with walls about 2 cm, thick. According to the inscriptions on seme of the columns, they came from the Leuna Works. These tanks were made of several welded rings, allegedly of chrome nickel steel, and were reinforced at two points by riveted. Thanged rings. These tanks had steel frames and were mounted on concrete bases. Flanged pipes were fastened to the top and bottom of these tanks, and there were several pipe sockets on the tors of the tanks. The tanks were filled to capacity with Raschig rings made of porous percelain. There were several manholes and large round glass windows in the tanks. On the lover part of the tanks were plates to which pressure gauges and hand-wheels for valves were attached. On the walls near the tanks were several galleries with rails, at different levels.
- 12. Several centrifugal pumps.
- 13. Four horizontal drums, each about h meters long and 2.2 meters in diameter.
- 14. Sight piston pumps, with small drums on top.
- 15. Drums, about 3 meters high and h maters in diameter.
- 16. Flue leading to the smokestack.
- 17. Four furnaces, built over the chimney flue. They were made of brick and were supported by steel frames.
- 18. Several small rooms furnished as laboratories and equipped with measuring instruments on platforms.
- 19. Room, equipped with several effective ded chiboards.
- 20. High smokestack.

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